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SUMMARY
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SUMMARY

Agenda Item: D.3.1

France

SOME APPLICATIONS OF THE TECHNIQUE AND INSTALLATION OF HIGH VOLTAGE ELECTRICAL EQUIPMENT IN DEVELOPING COUNTRIES

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SOME APPLICATIONS OF THE TECHNIQUE AND INSTALLATION OF HIGH VOLTAGE ELECTRICAL EQUIPMENT IN DEVELOPING COUNTRIES

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SUMMARY

1. INTRODUCTION

2. NATURE AND USES OF H.V. EQUIPMENT

   To transform and control energy. To protect equipment.

   Principal types of apparatus.

3. THE INFLUENCE OF LOCAL CONDITIONS ON THE DESIGN OF H.V. EQUIPMENT

   (a) Geographical and climatic conditions

   Temperature, winds, storms, earthquakes, nature of soil, dust, humidity, animal life.

   (b) Type of network

   Simplified pattern, radial network, therefore high voltage, low power.

   (c) Economic conditions

   Lack of funds at the start, therefore simple and extendible solutions.

   (d) Distance between the supplier of equipment and customer

   Considerable time taken up in transit, therefore reserve units needed.

   (e) Transport conditions

   Insufficient road facilities and small lorries, therefore light packages, division of power.

4. SPECIAL INSTALLATION PROBLEMS

   (a) Studies and Engineering

   Necessity for a detailed study in order to take all factors into account.

Urgent need for the internationalization of electrical standards.

(b) Transport difficulties

Careful packing because of fragility of electrical equipment.

(c) Installation

The provision of highly qualified specialized labour.

5. TRAINING OF NATIVE POPULATION

The training of technicians is the most effective economic aid that can be given to developing countries.

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